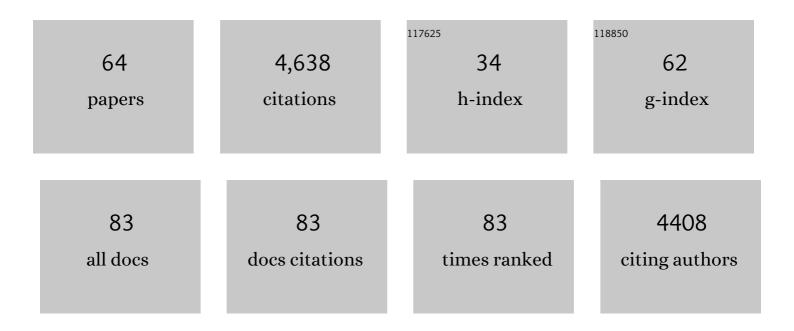
Patrick C A Van Der Wel

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Dynamic nuclear polarization at high magnetic fields. Journal of Chemical Physics, 2008, 128, 052211. | 3.0 | 734 |
| 2 | High-Field Dynamic Nuclear Polarization for Solid and Solution Biological NMR. Applied Magnetic Resonance, 2008, 34, 237-263. | 1.2 | 296 |
| 3 | Dynamic Nuclear Polarization of Amyloidogenic Peptide Nanocrystals:Â GNNQQNY, a Core Segment of the Yeast Prion Protein Sup35p. Journal of the American Chemical Society, 2006, 128, 10840-10846. | 13.7 | 255 |
| 4 | Solid-State NMR Study of Amyloid Nanocrystals and Fibrils Formed by the Peptide GNNQQNY from Yeast Prion Protein Sup35p. Journal of the American Chemical Society, 2007, 129, 5117-5130. | 13.7 | 177 |
| 5 | Tilt Angles of Transmembrane Model Peptides in Oriented and Non-Oriented Lipid Bilayers as Determined by 2H Solid-State NMR. Biophysical Journal, 2004, 86, 3709-3721. | 0.5 | 172 |
| 6 | Geometry and Intrinsic Tilt of a Tryptophan-Anchored Transmembrane α-Helix Determined by 2H NMR. Biophysical Journal, 2002, 83, 1479-1488. | 0.5 | 161 |
| 7 | The Aggregation-Enhancing Huntingtin N-Terminus Is Helical in Amyloid Fibrils. Journal of the American Chemical Society, 2011, 133, 4558-4566. | 13.7 | 158 |
| 8 | Huntingtin exon 1 fibrils feature an interdigitated β-hairpin–based polyglutamine core. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 1546-1551. | 7.1 | 143 |
| 9 | Peptide-Directed Assembly of Single-Helical Gold Nanoparticle Superstructures Exhibiting Intense Chiroptical Activity. Journal of the American Chemical Society, 2016, 138, 13655-13663. | 13.7 | 141 |
| 10 | Hydrophobic Mismatch between Helices and Lipid Bilayers. Biophysical Journal, 2003, 84, 379-385. | 0.5 | 135 |
| 11 | Dynamic nuclear polarization-enhanced solid-state NMR spectroscopy of GNNQQNY nanocrystals and amyloid fibrils. Physical Chemistry Chemical Physics, 2010, 12, 5911. | 2.8 | 114 |
| 12 | Cryogenic sample exchange NMR probe for magic angle spinning dynamic nuclear polarization. Journal of Magnetic Resonance, 2009, 198, 261-270. | 2.1 | 108 |
| 13 | Lipid Dependence of Membrane Anchoring Properties and Snorkeling Behavior of Aromatic and Charged Residues in Transmembrane Peptidesâ€. Biochemistry, 2002, 41, 7190-7198. | 2.5 | 106 |
| 14 | β-Hairpin-Mediated Nucleation of Polyglutamine Amyloid Formation. Journal of Molecular Biology, 2013, 425, 1183-1197. | 4.2 | 91 |
| 15 | Structural Complexity of a Composite Amyloid Fibril. Journal of the American Chemical Society, 2011, 133, 14686-14698. | 13.7 | 88 |
| 16 | Fibril polymorphism affects immobilized non-amyloid flanking domains of huntingtin exon1 rather than its polyglutamine core. Nature Communications, 2017, 8, 15462. | 12.8 | 81 |
| 17 | Complexes obtained by electrophilic attack on a dinitrogen-derived terminal molybdenum nitride: electronic structure analysis by solid state CP/MAS 15N NMR in combination with DFT calculations. Polyhedron, 2004, 23, 2751-2768. | 2.2 | 80 |
| 18 | Observation of a Low-Temperature, Dynamically Driven Structural Transition in a Polypeptide by Solid-State NMR Spectroscopy. Journal of the American Chemical Society, 2009, 131, 118-128. | 13.7 | 79 |

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|----|---|------|-----------|
| 19 | Serine Phosphorylation Suppresses Huntingtin Amyloid Accumulation by Altering Protein Aggregation Properties. Journal of Molecular Biology, 2012, 424, 1-14. | 4.2 | 76 |
| 20 | Structural Changes and Proapoptotic Peroxidase Activity of Cardiolipin-Bound Mitochondrial Cytochrome c. Biophysical Journal, 2015, 109, 1873-1884. | 0.5 | 75 |
| 21 | Polyglutamine Amyloid Core Boundaries and Flanking Domain Dynamics in Huntingtin Fragment Fibrils Determined by Solid-State Nuclear Magnetic Resonance. Biochemistry, 2014, 53, 6653-6666. | 2.5 | 74 |
| 22 | Structural Characterization of the Caveolin Scaffolding Domain in Association with Cholesterol-Rich Membranes. Biochemistry, 2012, 51, 90-99. | 2.5 | 72 |
| 23 | Hidden motions and motion-induced invisibility: Dynamics-based spectral editing in solid-state NMR. Methods, 2018, 148, 123-135. | 3.8 | 72 |
| 24 | Cataract-associated P23T γD-crystallin retains a native-like fold in amorphous-looking aggregates formed at physiological pH. Nature Communications, 2017, 8, 15137. | 12.8 | 69 |
| 25 | Structural Characterization of GNNQQNY Amyloid Fibrils by Magic Angle Spinning NMR. Biochemistry, 2010, 49, 9457-9469. | 2.5 | 66 |
| 26 | Time Averaging of NMR Chemical Shifts in the MLF Peptide in the Solid State. Journal of the American Chemical Society, 2010, 132, 5993-6000. | 13.7 | 65 |
| 27 | Lipid Dynamics and Protein–Lipid Interactions in 2D Crystals Formed with the β-Barrel Integral Membrane Protein VDAC1. Journal of the American Chemical Society, 2012, 134, 6375-6387. | 13.7 | 65 |
| 28 | Tryptophan-Anchored Transmembrane Peptides Promote Formation of Nonlamellar Phases in Phosphatidylethanolamine Model Membranes in a Mismatch-Dependent Mannerâ€. Biochemistry, 2000, 39, 3124-3133. | 2.5 | 58 |
| 29 | New applications of solid-state NMR in structural biology. Emerging Topics in Life Sciences, 2018, 2, 57-67. | 2.6 | 56 |
| 30 | Insights into protein misfolding and aggregation enabled by solid-state NMR spectroscopy. Solid State Nuclear Magnetic Resonance, 2017, 88, 1-14. | 2.3 | 50 |
| 31 | Orientation and Motion of Tryptophan Interfacial Anchors in Membrane-Spanning Peptides. Biochemistry, 2007, 46, 7514-7524. | 2.5 | 48 |
| 32 | Energetics Underlying Twist Polymorphisms in Amyloid Fibrils. Journal of Physical Chemistry B, 2018, 122, 1081-1091. | 2.6 | 44 |
| 33 | Use of solid-state NMR spectroscopy for investigating polysaccharide-based hydrogels: A review. Carbohydrate Polymers, 2020, 240, 116276. | 10.2 | 43 |
| 34 | Helical Distortion in Tryptophan- and Lysine-Anchored Membrane-Spanning α-Helices as a Function of Hydrophobic Mismatch: A Solid-State Deuterium NMR Investigation Using the Geometric Analysis of Labeled Alanines Method. Biophysical Journal, 2008, 94, 480-491. | 0.5 | 40 |
| 35 | On the use of ultracentrifugal devices for routine sample preparation in biomolecular magic-angle-spinning NMR. Journal of Biomolecular NMR, 2017, 67, 165-178. | 2.8 | 38 |
| 36 | d-Polyglutamine Amyloid Recruits I-Polyglutamine Monomers and Kills Cells. Journal of Molecular Biology, 2014, 426, 816-829. | 4.2 | 36 |

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|----|--|------|-----------|
| 37 | Protofilament Structure and Supramolecular Polymorphism of Aggregated Mutant Huntingtin Exon 1. Journal of Molecular Biology, 2020, 432, 4722-4744. | 4.2 | 34 |
| 38 | Multipole-multimode Floquet theory of rotational resonance width experiments: C13–C13 distance measurements in uniformly labeled solids. Journal of Chemical Physics, 2006, 124, 214107. | 3.0 | 31 |
| 39 | NMR identification of a conserved Drp1 cardiolipin-binding motif essential for stress-induced mitochondrial fission. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 7.1 | 31 |
| 40 | Surface-Binding to Cardiolipin Nanodomains Triggers Cytochrome c Pro-apoptotic Peroxidase Activity via Localized Dynamics. Structure, 2019, 27, 806-815.e4. | 3.3 | 28 |
| 41 | Conformational studies of pathogenic expanded polyglutamine protein deposits from Huntington's disease. Experimental Biology and Medicine, 2019, 244, 1584-1595. | 2.4 | 27 |
| 42 | Amyloid-like Fibrils from a Domain-swapping Protein Feature a Parallel, in-Register Conformation without Native-like Interactions. Journal of Biological Chemistry, 2011, 286, 28988-28995. | 3.4 | 26 |
| 43 | Domain swapping and amyloid fibril conformation. Prion, 2012, 6, 211-216. | 1.8 | 25 |
| 44 | Combined Experimental/Theoretical Refinement of Indole Ring Geometry Using Deuterium Magnetic Resonance and ab Initio Calculations. Journal of the American Chemical Society, 2003, 125, 12268-12276. | 13.7 | 24 |
| 45 | Structural Fingerprinting of Protein Aggregates by Dynamic Nuclear Polarization-Enhanced Solid-State NMR at Natural Isotopic Abundance. Journal of the American Chemical Society, 2018, 140, 14576-14580. | 13.7 | 22 |
| 46 | Backbone Engineering within a Latent β-Hairpin Structure to Design Inhibitors of Polyglutamine Amyloid Formation. Journal of Molecular Biology, 2017, 429, 308-323. | 4.2 | 21 |
| 47 | Methionine oxidized apolipoprotein Aâ€I at the crossroads of HDL biogenesis and amyloid formation. FASEB Journal, 2018, 32, 3149-3165. | 0.5 | 20 |
| 48 | Regulatory inter-domain interactions influence Hsp70 recruitment to the DnaJB8 chaperone. Nature Communications, 2021, 12, 946. | 12.8 | 20 |
| 49 | Modulation of membrane structure and function by hydrophobic mismatch between proteins and lipids. Pure and Applied Chemistry, 1998, 70, 75-82. | 1.9 | 20 |
| 50 | Optimized aminolysis conditions for cleavage of N-protected hydrophobic peptides from solid-phase resins. Chemical Biology and Drug Design, 2001, 57, 519-527. | 1.1 | 19 |
| 51 | Importance of Tensor Asymmetry for the Analysis of2H NMR Spectra from Deuterated Aromatic Rings. Journal of the American Chemical Society, 2005, 127, 17488-17493. | 13.7 | 19 |
| 52 | MAS 1 H NMR Probes Freezing Point Depression of Water and Liquid-Gel Phase Transitions in Liposomes. Biophysical Journal, 2016, 111, 1965-1973. | 0.5 | 19 |
| 53 | Solid-state NMR spectroscopy insights for resolving different water pools in alginate hydrogels. Food Hydrocolloids, 2022, 127, 107500. | 10.7 | 17 |
| 54 | Structural Dynamics and Tunability for Colloidal Tin Halide Perovskite Nanostructures. Advanced Materials, 2022, 34, e2201353. | 21.0 | 16 |

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|----|---|-----|-----------|
| 55 | Targeted ¹³ C– ¹³ C Distance Measurements in a Microcrystalline Protein via Jâ€Decoupled Rotational Resonance Width Measurements. ChemPhysChem, 2009, 10, 1656-1663. | 2.1 | 11 |
| 56 | High-resolution solid-state NMR structure of Alanyl-Prolyl-Glycine. Journal of Magnetic Resonance, 2009, 200, 95-100. | 2.1 | 11 |
| 57 | In support of the BMRB. Nature Structural and Molecular Biology, 2012, 19, 854-860. | 8.2 | 6 |
| 58 | Activation of Cytochrome C Peroxidase Function Through Coordinated Foldon Loop Dynamics upon Interaction with Anionic Lipids. Journal of Molecular Biology, 2021, 433, 167057. | 4.2 | 5 |
| 59 | Dihedral Angle Measurements for Structure Determination by Biomolecular Solid-State NMR Spectroscopy. Frontiers in Molecular Biosciences, 2021, 8, 791090. | 3.5 | 4 |
| 60 | Spinning-rate encoded chemical shift correlations from rotational resonance solid-state NMR experiments. Journal of Magnetic Resonance, 2013, 230, 117-124. | 2.1 | 3 |
| 61 | How Amyloid Precursor Protein Protects Itself from Cleavage. Structure, 2014, 22, 361-362. | 3.3 | 3 |
| 62 | Solid-state NMR studies of peripherally membrane-associated proteins: dealing with dynamics, disorder and dilute conditions. , 0, , . | | 3 |
| 63 | Structural and Motional Investigations of Polyglutamine-Containing Amyloid Fibrils by Magic-Angle-Spinning Solid-State NMR. Biophysical Journal, 2013, 104, 181a. | O.5 | 1 |
| 64 | Peptide Influences on Lipids. Novartis Foundation Symposium, 1999, 225, 170-187. | 1.1 | 0 |